order to obtain the maximum quantity of material. By this method you will be able to plant fresh material at the time of your choosing. Be sure to roll the cores down firmly and keep them moist at all times until well rooted.

Q—We have been advised to use Dieldrin on our bent greens. Do you know of any reason that this material might be harmful? (Vt.)

A—We know of no evidence that would make it necessary to issue any warning against the use of Dieldrin on bent greens. Sometimes, injury may occur when an oil carrier is used but then the damage would arise from the carrier and not the insecticide.

Q—We have piles of sawdust all through the woods near our course and we can get it for the hauling. Will it be all right to use this as a source of organic matter in our greens? (N.C.)

A—Sawdust is a good material for incorporating into your greens as a source of organic matter, for conditioning the heavy soil and to help hold a shot. Neither the kind of sawdust nor the age of the material seems to be very significant so long as you use enough nitrogen to feed the organisms that attack and break down the sawdust.

Yellowing of the grass in connection with use of sawdust usually means lack of nitrogen, not acidity necessarily. Lime-stone added will help to decompose the sawdust. A rate of 25 lbs. of dolomitic limestone to 1000 sq. ft. usually will be adequate whenever sawdust is used.

Q—We have some strains of Bermuda that throw seedheads, even under putting green conditions. They are unsightly and they interfere with putting. What can you suggest? (Ala.)

A—The old method used to be to hand rake and mow closely and then cover with topdressing. In this mechanized age we eliminate seedheads and the bumpy putting with vertical mowing equipment, used frequently to keep them under control.

Frequent, heavy feeding with nitrogen carrying fertilizer helps to keep the grass growing vigorously in a vegetative state with fewer seedheads. It may be that you should check the phosphorus levels in the soil and, if phosphorus is high, reduce phosphorus feeding for a considerable

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July, 1955
period until tests show that phosphorus is needed again.

Q—We hear a lot of discussion about "thatch" and "mat" but there seems to be a lot of disagreement on definitions. What is your explanation? (N.H.)

A—Let's start with grain because that is where most of our trouble begins.

Grain is the surface development of grass stems and blades which interfere with and affect the true roll of the ball.

Thatch is the next deeper layer of living material (stems, leaves, runners, stolons) which, together with the surface grain, acts like a "thatched roof" to shed water.

Mat is the dead felt-like material between the thatch and the soil.

In my definition it all begins with the grain. If we keep this under control we will automatically control thatch (living tissues) and mat (dead tissues).

Grain and thatch can be removed mechanically a little at a time and there will always be live grass to furnish a putting surface. To drastically remove grain, thatch and mat all at one time would utterly destroy the putting green, leaving no living material to grow and produce a new putting surface.

Mat must be brought down chemically and biologically with living organisms, aided by aerifying to remove columns of mat leaving holes through which air, moisture, nutrients and roots can move freely into the soil below.

A limited quantity of mat may be tolerated because it may provide a certain amount of cushion to help hold a shot. This would be true only if repeated frequent aerifying is practiced to overcome the bad effects of the mat and if vertical mowing is done to prevent grain and thatch from forming.

WHAT PRO SHOULD KNOW
(Continued from page 52)

cated that in most cases the shop-boy would be wise to ship his refinishing problems to a suitable and experienced source.

Irons, as a rule, are able to withstand much more abuse than wood clubs. On iron clubs, the shop-boy does not encoun-

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Cut Sharpening Costs!

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Simplex "150," the newest portable lapping machine, reconditions any hand, power, or gang reel-type mower with lapping compound... keeps mowers in top condition between sharpening jobs. Couples to either side of mower; gang mowers need not be unhitched. Weighs only 30 pounds—easily carried right to the job. G-E 1/4 hp motor with reversing switch for quiet, dependable operation. Besides its money-saving performance, the new Simplex "150" is...

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• MORE COMPACT
• LOWER PRICED

The FATE - ROOT - HEATH Company
Dept. G7, Plymouth, Ohio
ter any problems with refacing, loose sole plates, loose laces, screws, etc. An iron club seldom, if ever, breaks loose at the shaft, and if the shaft should break, then it is certainly advisable to send it to the factory for reshafting.

Iron Adjustments Dangerous

The well informed shop-boy should know and realize the danger of attempting to adjust the loft and lie of an iron club. Without the proper equipment, it simply cannot be accomplished properly. It is not sufficient to merely place an iron into a vise and hammer it to an upright lie, or to a flat lie. Without the necessary "know how", it becomes impossible to adjust the lie of an iron without destroying the loft.

With iron clubs, it is merely necessary to clean the heads with a detergent and warm water, and then wipe the heads dry. Although most heads are chrome or stainless steel, this does not guarantee or mean that they will remain rustless; it simply means that an iron head should not be buffed, as buffing cuts through most any finish. It also means that all irons should be wiped dry after each use or cleaning. Chrome will never rust if it is continu-

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Adjustable Control Lever on the Handle
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MILORGANITE produces vigorous, healthy, weed- and drought-resistant turf that keeps your Club membership and guests both happy and enthusiastic.

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QUOTATIONS on bulk or packaged truck or carload lots gladly furnished upon request.

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WIN "BEST TURF" HONORS WITH
PURATURF #177
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The proven cure for DOLLAR SPOT COPPER SPOT and PINK PATCH

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(a soluble phenyl mercury) eliminates crab grass and controls dollar and copper spot, pink patch. Most effective for snow mold and helminthosporium leaf spot.

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of the shaft. Most ladies' shafts have a tip diameter of .270. The standard medium men's shaft, with symbols of "T", plain Rocket, Rocket "R", plus a number of other secondary shafts with the plain True Temper label, all have a tip diameter of .278. This increase of .008 of an inch contributes to the stiffening effect.

The Rocket One Star, Rocket "S", and Dynamic .286 shafts all have a .286 tip diameter. Again, this increase in tip diameter also increases the stiffness. The Dynamic "S" and Rocket "X" have a .294 tip diameter.

**Tools for the Pro Shop**

Knowing these specifications, the shop-boy would not endeavor to remove a Dynamic "T" shaft from one wood club and try to replace it with a shaft marked "S". If he tried to insert the larger shaft without reaming out the wood head, he would split the neck of the smaller sized wood head. By the same token, it would not be wise to endeavor to replace an "X" shaft with a Rocket "R" shaft. Being much smaller, the Rocket "R" would have to be shimmed to bring the shaft up to a large diameter—large enough to insure a snug fit.

We can readily see the importance of
modern club making “know how” when used in conjunction with repair work. But we must remember that all of the “know how” in the world is useless without the proper tools.

As mentioned before, most pro shops are woefully lacking in proper tools and equipment. This is regrettable, especially when with a little thought most any pro shop can be placed in a fine position, toolwise, for under $25.

To properly handle some of the minor reconditioning jobs that a pro shop is called upon to perform it should have at least the following tools and equipment:

- 2 files—1 flat—1 half round
- 2 single edge screw drivers—2 sizes
- 2 Phillips screw drivers—2 sizes
- 2½ in. camels hair brushes for touch-up work
- 1 pint white shellac for touch-up work
- 1 pint black shellac for touch-up work
- 1 pint alcohol for thinning shellacs
- 1 pint 3-1 finoil for preserving and finishing
- ½ pint white lead for filling in stamping and wood face scoring
- 25 1x5 oversize face screws
- 25 ¾x8 oversize sole plate screws
- 1 jeweler’s saw for rescoring faces
- 1 package No. 1 sandpaper
- 1 package No. 00 steel wool
- 1 sharp pointed tool—awl type—for cleaning lettering, etc.
- 1 pint varnish
- 1 pint lacquer
- 1 pint thinner for removing finish and thinning lacquer
- 1 can liquid plastic finish
- 1 sharp knife
- 1 pair pliers
- 1 pair long nose pliers
- 1 hammer
- 1 hand drill
- 1 package drills—assorted sizes
- 1 package lead weights
- 1 can glue
- 1 roll string whipping
- quantity of grips, caps, and screws
- quantity of cheese cloth

This may appear to be an imposing array of materials, but the over-all cost would be negligible compared to the benefits which would be derived.

From the foregoing, it is apparent that a good shop-boy or professional is unable to do a presentable job of repairing or selling without the proper tools and without knowing the fundamentals of club making as it is practiced in the modern method.

It is especially deplorable when you realize that most golf club manufacturing plants are anxious and willing to disclose almost any part of their knowledge to the professionals. In spite of this fact, when Monday rolls around (the professional’s day off), it is rarely that a shop-boy or assistant professional drops into our factory seeking golf club making knowledge. Naturally, Wilson Sporting Goods is in no position to conduct clinics for aspiring shop-boys; we have neither the personnel or the facilities for such an undertaking. Nevertheless, we are always happy to impart whatever information we can—know-
ing that in the long analysis, not only the pro, but also the manufacturer profits from increased "know how" of the professional golf men.

Curtis Takes the Cake
Chuck Curtis is presented with a symbolic cake by Wilbur Clark on the occasion of his being elevated to the presidency of the National Golf Writers Association. Curtis, golf expert for the Los Angeles Times, was surprised with the confection while covering the Tournament of Champions at Clark's Desert Inn.

Women Golfers Present Pro Shop Fashion Show
A unique event took place at the Dearborn CC (Detroit dist.) on the occasion of the Women's Golf Group's Luncheon. A "Fashion Show" of the latest and smartest golf attire was well presented by the women golfing members themselves.

Over a hundred women golfers were seated at small tables in the dining room and ballroom and were delighted to watch the home talent models circulate among them, ready and willing to stop for close inspection and questions. Shorts received particular attention, this being the first year the club has sanctioned their wear by women.

Mrs. Gladys Johnson provided piano music as background, and Mrs. Ralph Johnson as narrator described the following costumes: Haymaker golf dresses, Serbin Bermuda shorts, culottes, Bermuda skirts and blouses.

Golf Mart Apparel included rain togs, matched separates, Chesterfield sweaters, Foot-Joy shoes, Coberknit Pullover and Jacket Windbreaker.

Mrs. Faust Bianco, wife of the Club

Par-Thatcher* Reel Saves on Equipment Expense
For easy, low cost thatch removal on bent greens, Bermuda tees and on aprons for re-seeding. Designed by M. M. Parsons, leading Golf Course Superintendent. Install a Par-Thatcher Reel in an idle greensmower—models to fit most Toro and Jacobsen greensmowers. Ask your course equipment dealer for a demonstration, or write.

Now Ready! Fairway Model to Fit Worthington Gang Mowers.

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SELL PAR TUBES NOW! WHY WAIT?

The demand is terrific and the profits are quick. PAR TUBES superior construction proves them tops in the field. A Must for any golfer who wants to protect his grips the full bag length and obtain a friction-proof bag with an individual compartment for each club. PAR TUBES are dropped into oval or round type bags allowing a numerical arrangement of clubs. PAR TUBES fit into and strengthen individual compartment bags, allowing full free use of EVERY compartment.

PAR TUBES are Strong — Moistureproof — They are endorsed by Pros and Amateurs alike as a great idea for keeping grips in fine condition and protecting clubs against marring by careless handling.

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Oval or Round Type Bags

Pro, managed the affair and has since established and displays all articles pertaining to golf in the Ladies’ Locker Room. This has met with much approval and is most convenient.

Discuss Minor Rules Changes

USGA and R&A representatives discussed minor rules changes during USGA officials recent visit to Britain. Included were proposals for reduction in ball lifting, and simplifying handling of the flag. The ruling bodies agreed to continue studies on standardizing ball but no change is in definite prospect.

Player experience generally is that U. S. ball (not smaller than 1.68 in. diameter) is most desirable for U. S. turf and British ball (1.62) better for British turf.

Philip E. Young, Acushnet Pres., Dies in New Bedford


Phil Young founded the Acushnet Process Co. in 1910 and ever since that date has been most active in its direction and management. It was largely as a result of his energy, courage and foresight that the company grew from small beginnings to one of New Bedford’s largest industries.

Although Acushnet manufactures a wide variety of molded rubber goods, it is best known as the producer of the Acushnet golf balls. It was Phil Young who, because of his own great personal interest in the game of golf, decided back in 1932 to produce an excellent golf ball.

To his wide circle of friends both in and out of golf Phil Young’s death comes as a severe blow. He was an exemplary, genial sportsman, a successful businessman respected by all who knew him and his works, and the treasured friend of a great many golfers.

A booklet containing pictures and text of the “Par for the Pro Department” slide film produced by the National Golf Foundation for the PGA Education committee has been issued by the National Golf Foundation, and will be distributed by the Professional Golfers Association of America, 134 N. LaSalle St., Chicago 2, Ill.

INTERNATIONAL WINNERS

John Jay Hopkins, chairman and founder of the International Golf Association, stands between the smiling pair of Chick Harbert (left) and Ed Furgol, who won all honors in the International Golf Championships at Columbia Country Club, Washington, D. C. Furgol won the new Hopkins International Championship trophy and teamed with Harbert to win the Canada Cup for team play. Furgol won more than $4,250 for his efforts while Harbert collected almost $2,000.
Dr. Douglas S. Calder has been named vice-pres. and gen. mgr. and a director by the Board of Dir. of Mallinckrodt Chemical Works Ltd., Montreal. Dr. Calder took over active management of the company about June 1. Dudley Batchelor, acting mgr. of the Canadian company at that time returned to a new position in the St. Louis office of the Mallinckrodt Chemical Works.

Clayton Ropp new salesman covering state of Michigan for Great Lakes Golf Ball Co., Strokemaster golf shoes, McGregor Sportswear and Plymouth Golf Ball Co. Ropp, former buyer for Lansing, Mich. sporting goods firm, is 40 years old, married and makes his home with wife and two youngsters in Lansing.

ACUSHNET OFFERS THREE HOLIDAY GIFT PACKAGES

At pro shops this year Acushnet will have three attractive special packages for holiday giving.

Equally suitable for men or women golf enthusiasts are the two handsome inlaid hardwood cases, one containing a dozen Titleists, the other one half dozen Titleists, or the de-luxe ash tray (or compo dish) of heavy jeweler's bronze holding 1 dozen gift wrapped Titleists.

In dozens in either the case or the tray each ball is personalized with the recipient's name at no extra cost. On ½ dozens no personalizing is offered—and in all cases any one of the three Titleists, 100, Regular or Tough is available.

These gift cases will be advertised in national magazines, and the profits on direct sales will be credited to the pro in the locality from which the order comes.

HILL COMPANY BUYS BALANCED GOLF BAG

Cliff Hill, Pres., C. M. Hill Co., Peoria, Ill., manufacturers of Pro-Grip golf gloves and head covers, have announced the purchase, June 6, of the Balanced Golf Bag, of Chicago. The purchase covered Balanced Golf Bag patents, trade name, raw and finished inventory and machinery. Henceforth Balanced Golf Bags will be sold to the Professionals through C. M. Hill Company distributors, thus effecting a saving in shipping charges and assuring faster delivery.

GREATER DISTANCE...DOESN'T PUDDLE

Just a single line of water, rotating, so all the water soaks in before the line passes over again. Up to a 90-foot diameter with good pressure; down to as little as a 15-foot diameter with a turn of the faucet.
RICKEY CAST IN NEW CREDIT ROLE

MacGregor sales manager, Bob Rickey, at his desk after a recent fall which produced a broken foot. Bob’s cast is being signed by Stan Clark, V-P and Credit Mgr. of MacGregor. Bob’s foot and leg will be in a cast for a period of six weeks.

LADDS ELECTED TRUE TEMPER DIRECTOR

Herbert P. Ladds, Pres., National Screw & Mfg. Co. of Cleveland, was elected a director of True Temper Corp., world’s largest manufacturer of golf club shafts, at the board’s June meeting.

Nationally known in the hardware industry, Mr. Ladds succeeds T. G. Graham, resigned, on True Temper’s board.

A former president of the Cleveland Chamber of Commerce, Ladds is a director of the Ohio Bell Telephone Co., American Shipbuilding Co., White Motor Co., Interlake Steamship Co., Western Maryland Railway Co. and the Union Bank of Commerce of Cleveland.

BAG BOY HAS DETACHABLE CART SEAT

A comfortable, light-weight golf seat attachable to a golf cart or detach and carry, to any sporting event has been created by Jarman-Williamson Co., makers of the Bag Boy golf carts. To make it part of your golf cart is attach two brackets to the cart shaft. One leg of the seat snaps into a pivot cup on the lower bracket. The seat will then fold easily against the shaft and is held against it by the upper bracket. It unfolds easily into a strong, steady seat. Snap the seat off the cart and it can be carried anywhere by a comfortable hand hold.

Golfers Imports, Inc., Box 26, Hillside Manor, New Hyde Park, N. Y. has a new pro price list on its balls, including a USGA specifications floater ball; Nicoll and Cotton imported clubs, umbrellas and cane seats, rubber golf boots, poplin jackets, head covers, Folda Fairway practice devices, Stroke-Saver putting practice devices, and Velvo grips.

CLUB PROTECTOR TUBES USE INCREASES

Golfers agree that the first part of a golf club to show signs of wear and tear is the grip. Most of the damage, however, occurs in the golf bag, where the club grips constantly rub together and quickly become scuffed and torn.

Many golfers have for protecting their clubs an individual “Pro-Tex” tube for each shaft. These thin, laminated fiber tubes are completely impregnated with a

NEW SPALDING ATLANTA DEPOT HAS VISITORS

The new Spalding Depot located at 1235 Techwood Drive, N.W. in Atlanta recently opened to give increased service to Spalding customers in the southeastern area, played host to several distinguished golf visitors. Shown above are left to right: R. M. Hubert, Athens CC, Athens, Ga., Pete Cole, Piedmont Park CC, Atlanta, Ga., J. E. Yates, Candler Park GC, Atlanta, Ga., Dempsey Wright, Meadowbrook CC, Atlanta, Ga., Lanier Reed, Cleveland G&CC, Cleveland, Tenn., unidentified assistant pro, and Aaron Jackson, Spalding representative.